



## Capacitive Sensors

Series 70 - NPN

Series 80 - PNP



Housing M 12 x 1

- Housing material: Stainless steel VA
- Sensing distance 0...6 mm adjustable

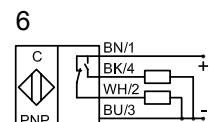
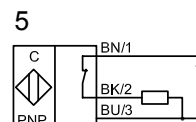
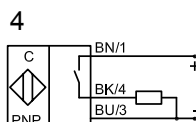
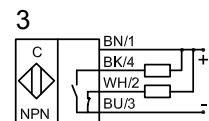
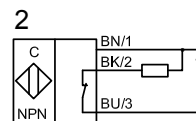
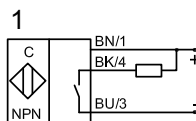
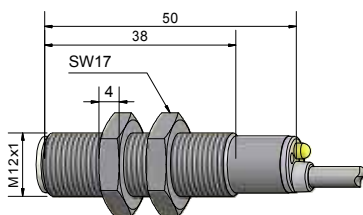
Certificate:



| Technical data                                    | Flush mountable                    | Flush mountable                    |
|---|------------------------------------|------------------------------------|
| Operating distance $S_n$                          | 2 mm                               | 2 mm                               |
| Operating distance min. / max. adjustable         | 0...6 mm                           | 0...6 mm                           |
| Electrical version                                | 3-wire DC                          | 4-wire DC                          |
| Output function                                   | Normally open                      | Antivalent                         |
| <b>Type NPN</b>                                   |                                    | <b>KAS-70-A12-A</b>                |
| <b>Art.-No.</b>                                   |                                    | <b>700 150</b>                     |
| Connection diagram No.                            |                                    | 3                                  |
| <b>Type PNP</b>                                   | <b>KAS-80-A12-S</b>                | <b>KAS-80-A12-A</b>                |
| <b>Art.-No.</b>                                   | <b>800 200</b>                     | <b>800 150</b>                     |
| Connection diagram No.                            | 4                                  | 6                                  |
| Operating voltage ( $U_B$ )                       | 10...35 V DC                       | 10...35 V DC                       |
| Output current max. ( $I_e$ )                     | 250 mA                             | 2 x 250 mA                         |
| Voltage drop max. ( $U_d$ )                       | $\leq 2.0$ V                       | $\leq 2.0$ V                       |
| Permitted residual ripple max.                    | 10 %                               | 10 %                               |
| No-load current ( $I_o$ )                         | Typ. 15 mA                         | Typ. 15 mA                         |
| Frequency of operating cycles max.                | 500 Hz                             | 500 Hz                             |
| Permitted ambient temperature                     | -25...+70 °C                       | -25...+70 °C                       |
| LED-display                                       | Green / yellow                     | Green / yellow                     |
| Protective circuit                                | Built-in                           | Built-in                           |
| Degree of protection IEC 60529                    | IP 67*                             | IP 67*                             |
| Norm  | EN 60947-5-2                       | EN 60947-5-2                       |
| Connection cable                                  | 2 m, PUR, 3 x 0.14 mm <sup>2</sup> | 2 m, PUR, 4 x 0.14 mm <sup>2</sup> |
| Housing material                                  | VA No. 1.4305                      | VA No. 1.4305                      |
| Active surface                                    | PTFE (FDA 21 CFR 177.1550)         | PTFE (FDA 21 CFR 177.1550)         |
| Lid   | PA / PPO                           | PA / PPO                           |
| Media optimized                                   | Yes                                | Yes                                |
| <b>Accessories</b> (is delivered with the sensor) | 2 pieces nuts M 12                 | 2 pieces nuts M 12                 |

All specifications are subject to change without notice. (06/2014)

\* With sealed potentiometer screw



Made in Germany